



## PATENT ABSTRACTS OF JAPAN

(11) Publication number: 58110334 A

(43) Date of publication of application: 30.06.1983

(51) Int. Cl. **B60R 1/08**  
**G03B 29/00**

(21) Application number: **56208833**  
 (22) Date of filing: **23.12.1981**

(71) Applicant: **HINO MOTORS LTD**  
 (72) Inventor: **MATSUTANI HIDEYOSHI**

**(54) ROAD-SURFACE VISUAL-RANGE INDICATOR**

dead angle in the ground space is removed, and running safety can be improved.

**(57) Abstract:**

COPYRIGHT: (C)1983,JPO&Japio

**PURPOSE:** To permit correctly grasping the condition of the road-surface around a car and remove the dead angle in the ground space by permitting the images on a plurality of TV cameras to be displayed through coordinates transformation process.

**CONSTITUTION:** A plurality of TV cameras 1W3 are installed at the front, back, and the center parts of a car. The image outputs from these cameras are input into a CPU18 through amplifiers 5W7, limiters 9W11, AD converters 13W15, and an input interface 17. A ROM19 in which the coordinates with regard a car acting as the origin are memorized is connected to the CPU18, and the image signal from each camera is synthesized to an image around the car. The CPU18 outputs images on a CRT25 through an output interface 21, DA converter 22, and an amplifier 23. As the road surface all around the car is projected, the

